

Document livrable et configuration

Préparation du serveur

Prérequisites

- Un serveur Linux. Nous recommandons **Ubuntu LTS 20.04**.
- Les technologies suivantes:
 - Apache (pour servir le site web)
 - MongoDB (pour sauvegarder nos données)
 - Git (pour télécharger le site web)
 - Node (pour rouler le serveur)
- Une clé SSH pour se connecter au serveur.

Téléversement du serveur

1. Connecter au serveur via SSH.
➤ `ssh utilisateur@serveur`
2. Créer un dossier pour stocker le serveur.
➤ `sudo mkdir -p /var/www/bracketmaker`
3. Naviguer au dossier créer.
➤ `cd /var/www/bracketmaker`
4. Téléverser le serveur.
➤ `git clone git@github.com:darkhappy/bracketmaker .`

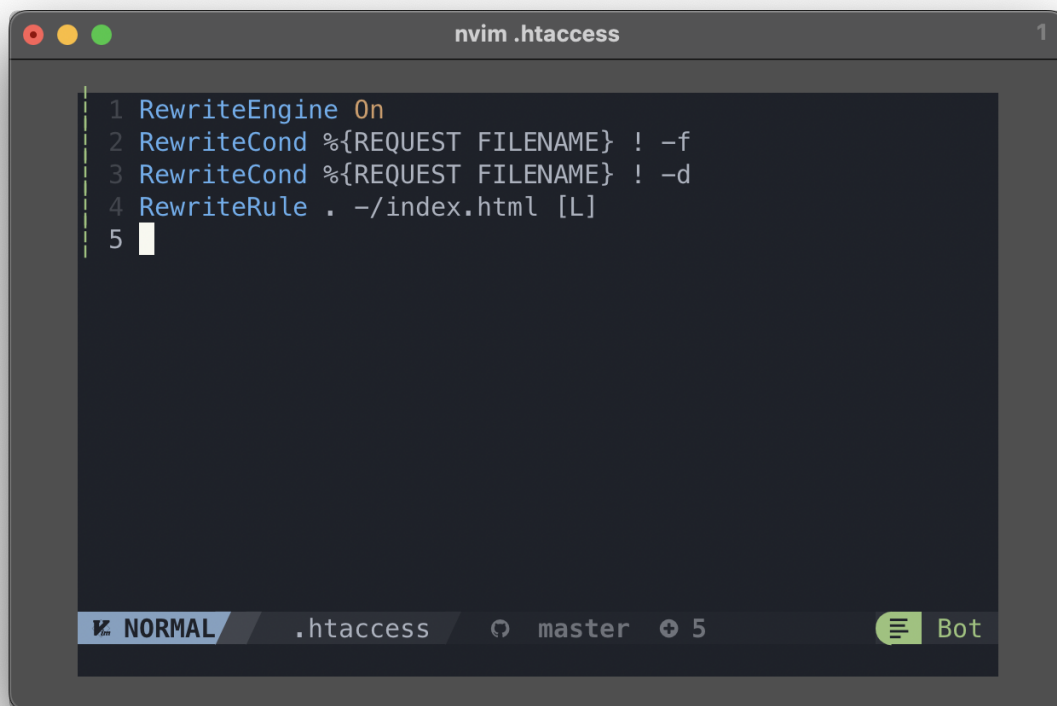
```
> git clone git@github.com:darkhappy/bracketmaker
Cloning into 'bracketmaker'...
remote: Enumerating objects: 3804, done.
remote: Counting objects: 100% (855/855), done.
remote: Compressing objects: 100% (335/335), done.
remote: Total 3804 (delta 522), reused 757 (delta 498), pack-reused 2949
Receiving objects: 100% (3804/3804), 16.56 MiB | 38.36 MiB/s, done.
Resolving deltas: 100% (2610/2610), done.
```

5. Vérifier si tout a bien été téléversé avec la commande ls.
➤ `ls -a`

```
> ls
README.md  client  docs  docuUtilisateur.md  package-lock.json  server
```

Installation client

1. Créer un dossier de distribution.
➤ `mkdir /var/www/bracketmaker/dist`
2. Naviguer au dossier client.
➤ `cd /var/www/bracketmaker/client`
3. Créer un nouveau fichier nommée `.htaccess`
➤ `vim ../dist/.htaccess`
4. Ajouter les lignes suivantes:



The screenshot shows a terminal window titled "nvim .htaccess" with a dark background. The file content is as follows:

```
1 RewriteEngine On
2 RewriteCond %{REQUEST_FILENAME} ! -f
3 RewriteCond %{REQUEST_FILENAME} ! -d
4 RewriteRule . -/index.html [L]
5
```

The bottom status bar of the terminal shows "NORMAL", ".htaccess", "master", and "5".

5. Installer les paquets nécessaires pour le client.
➤ `npm i --omit=dev`

```
> npm i --omit=dev

added 74 packages, and audited 75 packages in 17s

2 packages are looking for funding
  run `npm fund` for details
```

6. Créer les fichiers de distribution.

➤ **npm run build**

```
> npm run build

> bracketmaker@0.0.0 build
> ng build

✓ Browser application bundle generation complete.
✓ Copying assets complete.
✓ Index html generation complete.

Initial Chunk Files | Names | Raw Size | Estimated Transfer Size
main.59e8234af43d07b6.js | main | 722.84 kB | 168.51 kB
styles.ca97b58a30a4f09c.css | styles | 243.45 kB | 17.52 kB
polyfills.fa0874d2d383deff.js | polyfills | 33.07 kB | 10.66 kB
runtime.dae85c5e185f6fd2.js | runtime | 2.74 kB | 1.32 kB
| Initial Total | 1002.10 kB | 198.01 kB

Lazy Chunk Files | Names | Raw Size | Estimated Transfer Size
459.b493035e714133d6.js | modules-user-user-module | 184.68 kB | 34.67 kB
217.c5e55c69a244f950.js | modules-user-user-module | 147.89 kB | 26.37 kB
552.2b9e38dd3cf7428e.js | modules-auth-auth-module | 25.53 kB | 6.14 kB
650.d44f41a9fbd72058.js | modules-user-user-module | 6.38 kB | 1.52 kB
409.4f099484d5c7e41a.js | modules-home-home-module | 3.30 kB | 1.32 kB

Build at: 2023-03-13T05:56:12.688Z - Hash: f2b9c0bca796a062 - Time: 208017ms
```

7. Déplacer les fichiers dans le bon dossier.

➤ **mv dist/bracketmaker/* ../dist/**

Configuration Apache

Il faut configurer Apache de la manière suivante:

› vim /etc/apache2/sites-available/000-default.conf

```
<VirtualHost *:80>
ServerAdmin webmaster@localhost
    DocumentRoot /var/www/html
    ProxyPass "/api/" "http://172.21.82.64:3000/"

    <Directory /var/www/html>
        Options Indexes FollowSymLinks
        AllowOverride All
        Require all granted
    </Directory>
    AccessFileName .htaccess

    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>
<VirtualHost *:443>
    # The ServerName directive sets the request scheme, hostname and port that
    # the server uses to identify itself. This is used when creating
    # redirection URLs. In the context of virtual hosts, the ServerName
    # specifies what hostname must appear in the request's Host: header to
    # match this virtual host. For the default virtual host (this file) this
    # value is not decisive as it is used as a last resort host regardless.
    # However, you must set it for any further virtual host explicitly.
    #ServerName www.example.com

    ServerAdmin webmaster@localhost
    DocumentRoot /var/www/html
    ProxyPass "/api/" "http://172.21.82.64:3000/"

    <Directory /var/www/html>
        Options Indexes FollowSymLinks
        AllowOverride All
        Require all granted
    </Directory>
    AccessFileName .htaccess

    SSLEngine on
    SSLCertificateFile /etc/ssl/certs/mutillidae.crt
    SSLCertificateKeyFile /etc/ssl/private/mutillidae.key
    # Available loglevels: trace8, ..., trace1, debug, info, notice, warn,
    # error, crit, alert, emerg.
    # It is also possible to configure the loglevel for particular
    # modules, e.g.
    #LogLevel info ssl:warn

    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined

    # For most configuration files from conf-available/, which are
    # enabled or disabled at a global level, it is possible to
    # include a line for only one particular virtual host. For example the
    # following line enables the CGI configuration for this host only
    # after it has been globally disabled with "a2disconf".
    #Include conf-available/serve-cgi-bin.conf
</VirtualHost>
```

Installation serveur

1. Naviguer au dossier serveur.
➤ `cd /var/www/bracketmaker/server`
2. Installer les paquets nécessaires pour le serveur.
➤ `npm i --omit=dev`

```
> npm i --omit=dev  
  
added 74 packages, and audited 75 packages in 17s  
  
2 packages are looking for funding  
run `npm fund` for details
```

3. Partir le serveur.
➤ `npm run start`

```
> npm start  
  
> api@1.0.0 start  
> nodemon index.js  
  
[nodemon] 2.0.20  
[nodemon] to restart at any time, enter `rs`  
[nodemon] watching path(s): *.*  
[nodemon] watching extensions: js,mjs,json  
[nodemon] starting `node index.js`
```

Configuration du serveur

Il faut configurer le serveur de la manière suivante:

➤ `vim /var/www/bracketmaker/server/.env`

